	Application No.	Applicant(s)
Notice of Allowability	10/040,473 Examiner	SILVERBROOK, KIA Art Unit
	Nema O Berezny	2813
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap ) or other appropriate communication IGHTS. This application is subject to	plication. If not included  n will be mailed in due course. <b>THIS</b>
1. This communication is responsive to paper filed 12-9-03.		
2. ☑ The allowed claim(s) is/are <u>8-15</u> .		
3. $oxed{\boxtimes}$ The drawings filed on <u>09 January 2002</u> are accepted by th	e Examiner.	
4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6.  CORRECTED DRAWINGS (as "replacement sheets") mus (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date (b)  including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7.  DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  Initted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. Son's Patent Drawing Review ( PTO s Amendment / Comment or in the Co . 84(c)) should be written on the drawin the header according to 37 CFR 1.121(	national stage application from the complying with the requirements.  'S AMENDMENT or NOTICE OF stion is deficient.  948) attached  Office action of the back) of d).  must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☐ Examiner's Amendr	te
	#PRI	JACK CHEN MARY EXAMINER

## **DETAILED ACTION**

## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or disclose or make obvious a light emitting semiconductor package, including inter alia: a hollow cap comprising: a central portion and first perimeter walls extending from the perimeter edge of the central portion with the free edges of the first perimeter walls bonded to the top surface of the semiconductor chip to provide a first cavity, the central portion being transparent or translucent, wherein the hollow cap has been bonded to the chip at the wafer stage prior to separation of the wafer into individual packages.

In Swirhun (6,001,664) Fig.7b, elements 136 and 138 appear to have a cavity formed around the perimeter edge, but Examiner would agree that since elements 136 and 138 are lenses, they would not have a vacant cavity.

Abramov et al. (6,365,920) discloses a hollow cap as defined by claim 8, but the walls of the cap cover the edges of the chip (Fig.1). Therefore, the cap could not be placed over the chip prior to separation of the chips from a wafer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nema O Berezny whose telephone number is (571) 272-1686. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NB